

AMENDMENTS TO THE CLAIMS

The listing of claims below replaces all prior versions of claims in the application.

1. (Cancelled):

2. (Currently amended): An energy dispersion type X-ray diffraction/spectral device comprising:

- a white X-ray generating means;
- an X-ray detecting means; and
- a specimen support interposed between said white X-ray generating means and said X-ray detecting means, said specimen support having positioning members which are capable of positioning said white X-ray generating means and said X-ray detecting means relative to each other in either a first position or a second position without the use of a goniometer;

- wherein said X-ray diffraction/spectral device obtains intensity data for each level of energy at the first position to obtain first data and at the second position to obtain second data;

- wherein said X-ray diffraction/spectral device obtains third data which is data regarding diffracted X-rays and is based on a difference between said first data and said second data; and

- wherein said X-ray diffraction/spectral device obtains data regarding fluorescent X-rays from the difference between the first or second data and third data.

3. (New): An energy dispersion type X-ray diffraction/spectral device comprising:

- a white X-ray generating means;

- an X-ray detecting means; and

a specimen support interposed between said white X-ray generating means and said X-ray detecting means, said specimen support having positioning members which are capable of positioning said white X-ray generating means and said X-ray detecting means relative to each other in either a first position or a second position without the use of a specimen rotation mechanism;

wherein said X-ray diffraction/spectral device obtains intensity data for each level of energy at the first position to obtain first data and at the second position to obtain second data;

wherein said X-ray diffraction/spectral device obtains third data which is data regarding diffracted X-rays and is based on a difference between said first data and said second data; and

wherein said X-ray diffraction/spectral device obtains data regarding fluorescent X-rays from the difference between the first or second data and third data.

4. (New): An energy dispersion type X-ray diffraction/spectral device comprising:

a white X-ray generating means;

an X-ray detecting means;

a data processing means; and

a specimen support interposed between said white X-ray generating means and said X-ray detecting means, said specimen support having positioning members which are capable of positioning said white X-ray generating means and said X-ray detecting means relative to each other in either a first position or a second position;

wherein said X-ray detecting means obtains intensity data for each level of energy at the first position to obtain first data and at the second position to obtain second data; and

said data processing means obtains third data which is data regarding diffracted X-rays and is based on a difference between said first data and second data, and said data processing means obtains data regarding fluorescent X-rays from the difference between the first or second data and third data.